

Regional Surveillance Report: April 2016

SUMMARY

- **Health Service Region 2**

- There were a total of 75 cases reported in Health Service Region 2 for the month.
- Reported cases of campylobacteriosis, shigellosis and *Streptococcus*, invasive group B were beyond historical limits for the five-year monthly median (highlighted in Table 1).

- **Health Service Region 3**

- There were a total of 468 cases reported in Health Service Region 3 for the month.
- Reported cases of shigellosis were beyond historical limits for the five-year monthly median (highlighted in Table 2).

- **Outbreak Investigations**

- Seven shigellosis outbreaks were investigated:
 - Four outbreaks associated with elementary schools in Archer, Rockwall, Wichita and Wilbarger Counties.
 - Two outbreaks associated with childcare centers in Denton and Hunt Counties.
 - One outbreak associated with elementary schools and a childcare center in Johnson County.
- Three pertussis outbreaks were investigated in Tarrant County associated with two schools and one childcare center.
- A Carbapenem Resistant *Enterobacteriaceae* outbreak was investigated in Dallas County associated with an acute care hospital.
- One enteric outbreak of unknown etiology were investigated in Collin County associated with an elementary school.

Please see the following tables and figures for more details. NOTE: Counts include confirmed and probable cases reported to the Texas Department of State Health Services via NEDSS (National Electronic Disease Surveillance System) in report month. Counts include conditions coordinated by the epidemiology branch only. Cases may be pending investigation and counts are subject to change. A map of the region can be found on the last page of this report. Counts beyond historical limits or differing from the five year median may be due to current or past outbreaks, seasonal variations, or infrequently reported diseases.

Table 1: Reported Disease Case Counts in Health Service Region 2, April 2016

<u>Disease</u>	<u>April 2016</u>	<u>January - December 2016</u>	<u>5-Year Monthly Median F</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during April 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Amebiasis	0	0	0	0	0	0	1	0	
Amebic meningitis and encephalitis	0	0	0	0	0	0	0	0	
Ascariasis (roundworm)*	0	0	0						
Botulism (adult and infant)	0	0	0	0	0	0	0	0	
Campylobacteriosis	16	50	3	132	37	38	71	43	Archer (1), Clay (1), Cottle (1), Taylor (1), Wichita (12)
Carbapenem-resistant Enterobacteriaceae (CRE)	0	0	0	0	6	--	--	--	
Creutzfeldt-Jakob Disease (CJD)/Prion Disease	0	0	0	0	0	0	0	1	
Cryptosporidiosis	4	5	1	23	8	4	9	10	Wichita (4)
Cyclosporiasis	0	0	0	7	1	4	0	0	
Diphtheria	0	0	0	0	0	0	0	0	
Fascioliasis (liver fluke/flatworm)*	0	0	0	--	--	--	--	--	
<i>Haemophilus influenzae</i> , invasive	0	2	0	0	1	0	0	0	
Hemolytic Uremic Syndrome (HUS)	0	0	0	1	1	0	1	1	
Hepatitis A, acute	0	3	0	3	2	3	5	4	
Hepatitis B, acute	0	2	0	5	4	4	7	9	
Hepatitis B, perinatal	0	0	0	0	0	0	0	0	
Hepatitis C, acute	0	3	0	12	11	4	0	2	
Hepatitis E, acute	0	0	0	1	0	0	0	0	
Hookworm (Ancylostomiasis)*	0	0	0	--	--	--	--	--	
Influenza-associated pediatric mortality	0	0	0	1	0	0	0	0	
Legionellosis	0	0	0	5	6	3	4	2	

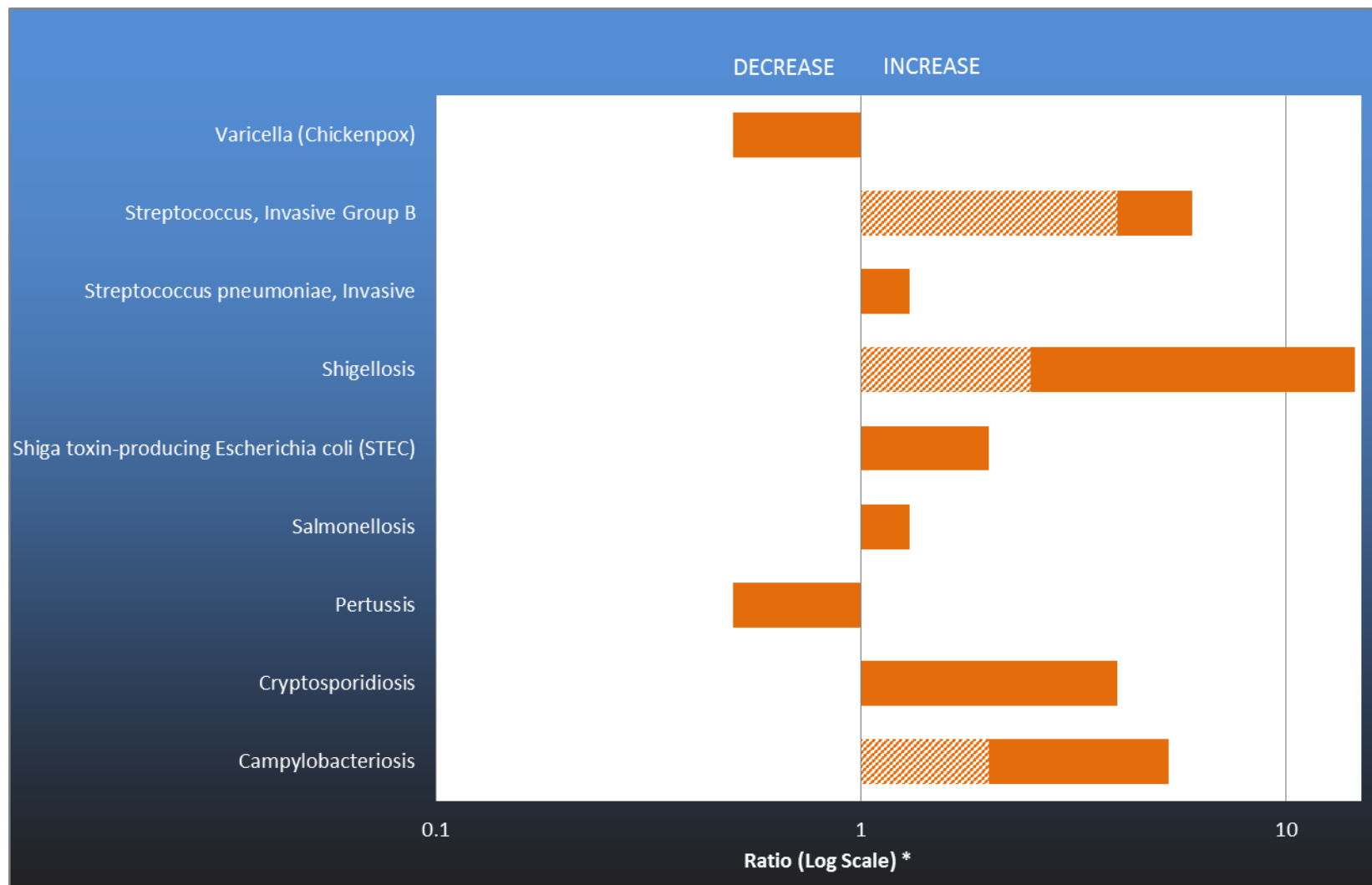
<u>Disease</u>	<u>April 2016</u>	<u>January - December 2016</u>	<u>5-Year Monthly Median †</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during April 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Listeriosis	0	0	0	0	0	0	0	2	
Measles	0	0	0	0	3	0	0	0	
Multidrug-resistant <i>Acinetobacter</i> (MDR-A)	0	1	0	7	10	--	--	--	
Mumps	0	0	0	0	1	0	0	2	
<i>Neisseria meningitidis</i> , invasive	0	0	0	0	0	0	0	0	
Novel Coronavirus	0	0	0	0	0	0	0	0	
Paragonimiasis (Lung flake/flatworm) *	0	0	0	--	--	--	--	--	
Pertussis	1	12	2	70	24	77	31	9	Wichita (1)
Poliomyelitis, acute paralytic	0	0	0	0	0	0	0	0	
Rubella (including congenital)	0	0	0	0	0	0	0	0	
Salmonellosis	8	28	6	147	117	133	200	140	Knox (1), Nolan (1), Taylor (1), Wichita (4), Young (1)
Shiga toxin-producing <i>Escherichia coli</i> (STEC)	2	3	1	18	26	15	13	20	Comanche (1), Shackelford (1)
Shigellosis	29	56	2	76	20	41	187	63	Archer (4), Clay (1), Taylor (1), Wichita (21), Wilbarger (2)
Smallpox	0	0	0	0	0	0	0	0	
<i>Streptococcus pneumoniae</i> , invasive	4	22	3	48	22	14	24	18	Montague (1), Wichita (2), Young (1)
<i>Streptococcus</i> , Invasive Group A	2	10	0	25	7	5	7	9	Taylor (1), Wichita (1)
<i>Streptococcus</i> , Invasive Group B	6	23	1	28	24	19	11	20	Baylor (1), Clay (1), Comanche (1), Haskell (1), Taylor (1), Wichita (1)
Tetanus	0	0	0	0	0	0	0	0	
Trichuriasis (whipworm) *	0	0	0	--	--	--	--	--	
Typhoid Fever	0	0	0	0	1	0	0	0	

<u>Disease</u>	<u>April 2016</u>	<u>January - December 2016</u>	<u>5-Year Monthly Median ‡</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during April 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Varicella (Chickenpox)	3	11	6	38	33	48	84	112	Brown (3)
Vibrio infection (including cholera)	0	0	0	1	2	1	0	3	
Viral Hemorrhagic Fever (including Ebola)	0	0	0	0	0	0	0	0	
Vancomycin Intermediate <i>S. aureus</i> (VISA)	0	0	0	0	1	1	1	0	
Vancomycin Resistant <i>S. aureus</i> (VRSA)	0	0	0	0	0	0	0	0	
Yersiniosis	0	0	0	1	1	0	0	0	
Total	75	231		649	369	414	656	470	

‡ Calculated by determining the median of the incidence counts for the current month, the month preceding the current month, and the month following the current month, for the 5 preceding years.

* Reportable conditions as of 2016, no previous data available.

FIGURE I. Notifiable Diseases Exceeding Five-year Monthly Median for April 2016, Health Service Region 2



*Ratio of current monthly total to median of 15 month totals (from previous, comparable, and subsequent months for the past 5 years). Conditions with a 5-year monthly median of zero or a ratio of 1 are not displayed in the figure above.

Current Ratio
 Historical Limits

Table 2: Reported Disease Case Counts in Health Service Region 3, April 2016

<u>Disease</u>	<u>April 2016</u>	<u>January – December 2016</u>	<u>5-Year Monthly Median †</u>	<u>Total Cases in Previous Years</u>					<u>Counties Reporting during April 2016 (Counts)</u>
				<u>2015</u>	<u>2014</u>	<u>2013</u>	<u>2012</u>	<u>2011</u>	
Amebiasis	1	16	4	46	46	65	56	53	Dallas (1)
Amebic meningitis and encephalitis	0	0	0	0	0	0	0	0	
Ascariasis (roundworm) *	0		0						
Botulism (adult and infant)	0	1	0	2	1	2	0	1	
Campylobacteriosis	54	187	46	812	657	606	572	438	Collin (3), Dallas (14), Denton (3), Ellis (1), Erath (1), Fanin (1), Grayson (1), Hood (1), Johnson (6), Kaufman (1), Navarro (1), Palo Pinto (2), Parker (3), Rockwall (1), Somervell (2), Tarrant (12), Wise (1)
Carbapenem-resistant Enterobacteriaceae (CRE)	5	29	0	49	29	--	--	--	Dallas (2), Ellis (1), Navarro (1), Tarrant (1)
Creutzfeldt-Jakob Disease (CJD)/Prion Disease	0	0	0	1	9	1	6	2	
Cryptosporidiosis	10	47	6	247	97	128	98	126	Collin (1), Dallas (2), Denton (1), Grayson (1), Tarrant (5)
Cyclosporiasis	0	0	0	105	118	183	13	9	
Diphtheria	0	0	0	0	0	0	0	0	
Fascioliasis (liver fluke/flatworm) *	0	0	0	--	--	--	--	--	
<i>Haemophilus influenzae</i> , invasive	7	29	0	2	3	0	2	1	Collin (1), Dallas (2), Denton (2), Ellis (1), Tarrant (1)
Hemolytic Uremic Syndrome (HUS)	0	0	0	7	3	4	8	5	
Hepatitis A, acute	1	15	3	47	27	27	62	55	Collin (1)
Hepatitis B, acute	2	13	2	41	22	24	38	42	Collin (2)
Hepatitis B, perinatal	0	0	0	0	1	1	1	1	
Hepatitis C, acute	1	3	1	23	19	11	20	8	Denton (1)

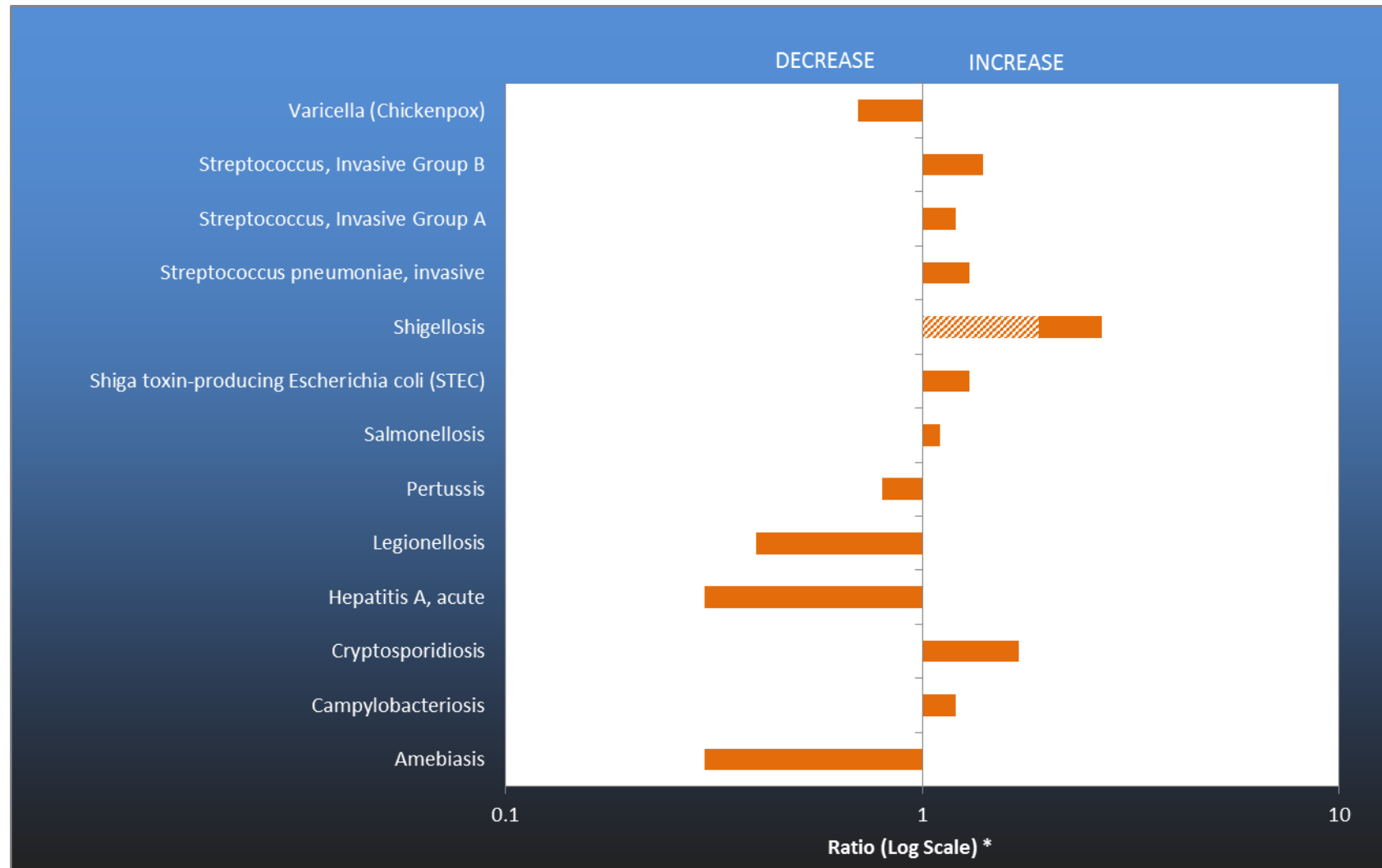
Disease	April 2016	January – December 2016	5-Year Monthly Median ‡	Total Cases in Previous Years					Counties Reporting during April 2016 (Counts)
				2015	2014	2013	2012	2011	
Hepatitis E, acute	0	3	0	1	5	4	4	7	
Hookworm (Ancylostomiasis) *	0	0	0	--	--	--	--	--	
Influenza-associated pediatric mortality	0	1	0	4	5	2	5	5	
Legionellosis	2	13	5	120	105	68	59	52	Dallas (1), Kaufman (1)
Listeriosis	3	3	0	6	5	9	8	14	Kaufman (1), Tarrant (2)
Measles	0	1	0	1	4	25	0	3	
Multidrug-resistant <i>Acinetobacter</i> (MDR-A)	11	73	0	208	177	0	0	0	Collin (1), Dallas (2), Denton (2), Tarrant (4), Wise (2)
Mumps	0	2	0	6	5	1	5	7	
<i>Neisseria meningitidis</i> , invasive	1	3	0	4	5	13	13	10	Denton (1)
Novel Coronavirus	0	0	0	0	0	0	0	0	
Paragonimiasis (Lung fluke/flatworm) *	0	0	0	--	--	--	--	--	
Pertussis	48	178	58	619	1,041	1,850	675	282	Collin (4), Cooke (1), Dallas (4), Denton (3), Ellis (1), Johnson (3), Parker (2), Tarrant (30)
Poliomyelitis, acute paralytic	0	0	0	0	0	0	0	0	
Rubella (including congenital)	0	0	0	2	0	0	0	0	
Salmonellosis	69	238	65	1,380	1,137	1,142	1,245	1,208	Collin (11), Dallas (20), Denton (8), Ellis (3), Fannin (1), Grayson (1), Hood (1), Hunt (1), Johnson (5), Palo Pinto (1), Parker (1), Tarrant (15), Wise (1)
Shiga toxin-producing <i>Escherichia coli</i> (STEC)	18	53	14	186	222	162	125	145	Collin (2), Dallas (4), Denton (4), Ellis (2), Erath (1), Hood (1), Parker (2), Tarrant (2)

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Shigellosis	85	366	32	865	739	667	376	676	Collin (7), Dallas (15), Denton (9), Ellis (3), Hunt (2), Johnson (11), Kaufman (5), Navarro (1), Parker (1), Rockwall (3), Tarrant (28)
Smallpox	0	0	0	0	0	0	0	0	
<i>Streptococcus pneumoniae</i> , invasive	60	270	45	471	518	499	458	413	Collin (4), Cooke (1), Dallas (21), Denton (3), Johnson (1), Kaufman (2), Navarro (1), Parker (1), Somervell (1), Tarrant (25)
<i>Streptococcus</i> , Invasive Group A	13	46	11	178	202	118	104	152	Collin (1), Dallas (8), Tarrant (4)
<i>Streptococcus</i> , Invasive Group B	34	156	25	507	421	281	292	288	Collin (2), Dallas (13), Denton (4), Ellis (4), Kaufman (1), Tarrant (9), Wise (1)
Tetanus	0	2	0	0	1	0	0	1	
Trichuriasis (whipworm) *	0	0	0	--	--	--	--	--	
Typhoid Fever	0	2	0	7	9	7	8	11	
Varicella (Chickenpox)	42	122	64	366	499	513	614	710	Collin (4), Dallas (8), Denton (9), Hunt (1), Johnson (2), Kaufman (1), Rockwall (2), Tarrant (14), Wise (1)
Vibrio infection (including cholera)	0	3	0	13	16	10	16	9	
Viral Hemorrhagic Fever (Ebola)	0	0	0	0	3	0	0	0	
Vancomycin Intermediate <i>S. aureus</i> (VISA)	0	1	0	6	1	2	7	1	
Vancomycin Resistant <i>S. aureus</i> (VRSA)	0	0	0	0	0	0	0	0	
Yersiniosis	1	1	0	4	6	12	5	4	Collin (1)
Total	468	1,877		6,336	6,158	6,437	4,895	4,739	

‡ Calculated by determining the median of the incidence counts for the current month, the month preceding the current month, and the month following the current month, for the 5 preceding years.

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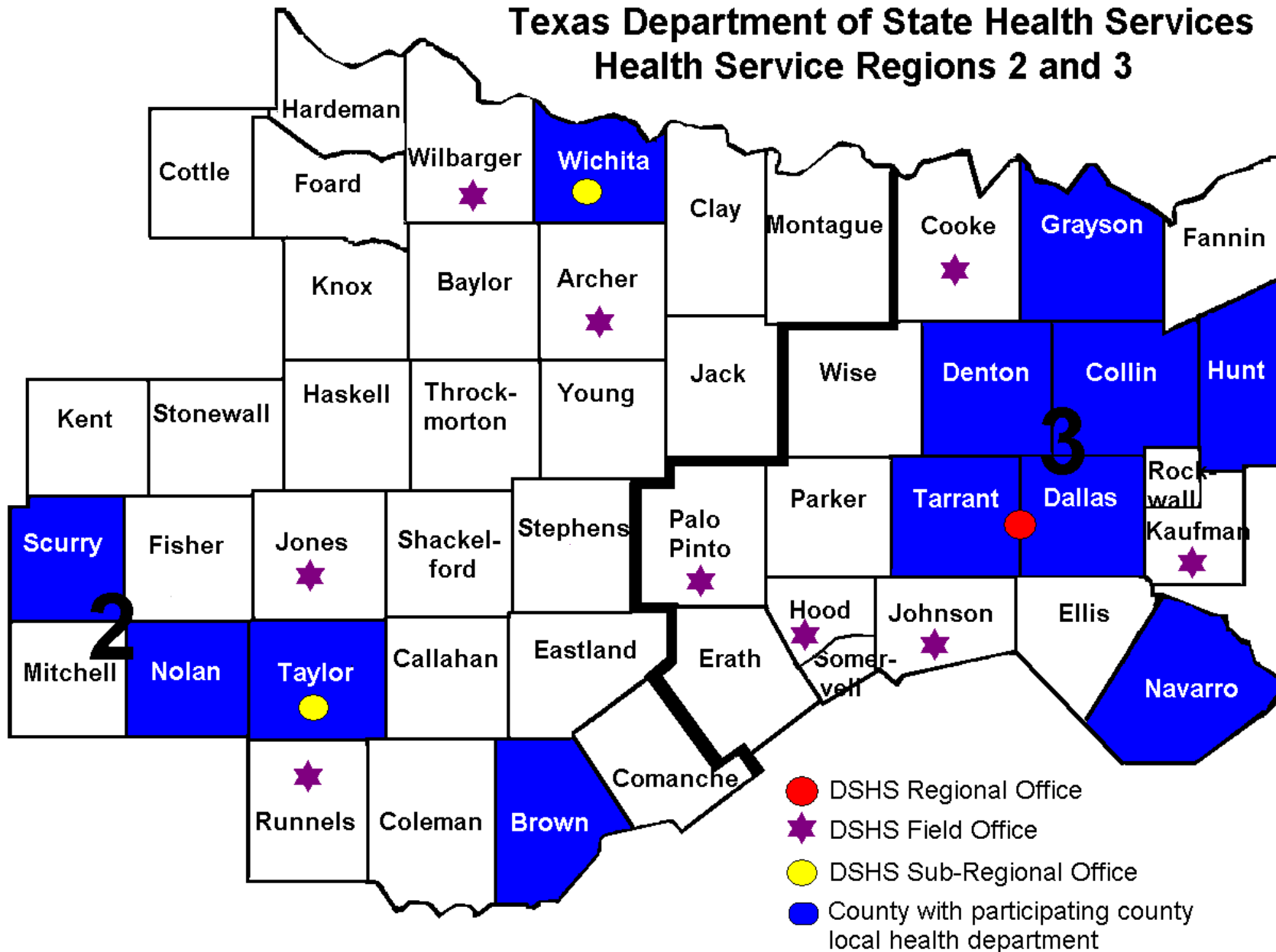
FIGURE II. Notifiable Diseases Exceeding Five-year Monthly Median for April 2016, Health Service Region 3



*Ratio of current monthly total to median of 15 month totals (from previous, comparable, and subsequent months for the past 5 years). Conditions with a 5-year monthly median of zero or a ratio of 1 are not displayed in the figure above.

Current Ratio Historical Limits

Texas Department of State Health Services Health Service Regions 2 and 3



If you have any questions about this monthly report or notifiable disease conditions in Texas, please contact:

Diana Cervantes, MS, DrPH Chief Epidemiologist

Diana.Cervantes@dshs.state.tx.us <https://www.dshs.state.tx.us/region2-3/epidemiology.aspx>

Phone: 817-264-4657 Reporting FAX: 817-264-4557